The VESDA LaserPLUS power supply, model VPS-400US/48, is configured for telecommunication applications and requires a 48 VDC uninterruptable power source that serves as both the primary and back-up power source for the VESDA LaserPLUS system.

The VESDA LaserPLUS power supply, model VPS-400US/48, is a multiple zone switching power supply. The VPS-400US/48 is capable of providing power to one, two, three or four VESDA LaserPLUS detectors fitted with a display. Alternatively, the VESDA LaserPLUS power supply, model VPS-400US/48, is capable of providing power for one to 20 VESDA LaserPLUS remote displays fitted with relays.

Components

The VESDA LaserPLUS power supply, model VPS-400US/48, consists of four major components: the mounting enclosure, the switching power supply, the 3A slow-acting type output fuse and two screw terminal barrier strips (input and output).

Installation of the VESDA Power Supply, Model VPS-400US/48

The VESDA LaserPLUS power supply, model VPS-400US/48, converts 48 VDC to 24 VDC power via a low dissipative stabilizer that uses pulse width modulation to control the output voltage.

The VPS-400US/48 should be installed in accordance with the National Electrical Code, NFPA 72, and in accordance with any local regulations. See wiring diagrams for proper hookup.
POWER SUPPLY Specifications

Input:
- Nominal Input Voltage: 48VDC
- Input Voltage Range: 40 to 56 VDC
- Input Fuse Rating: Internal, Slow-acting, 4.0A - 250 volts
- Input Current: 1.6A DC typical, 1.7A DC maximum

Output:
- Nominal Output Voltage: 24VDC
- Adjustable Output Voltage Range: 16.8 - 26.4 VDC
- Output Current: 2.5A DC @ 86°F (30°C)
- Switching component ripple, P-P: 50 mV typical, 100 mV maximum

Dimensions:
- 13.8 in. x 8.9 in. x 4.9 in. (350 mm x 225 mm x 125 mm)

Weight:
- 8 lbs. (3.6 kg.)

Operating Temperature:
- Ambient: 32° to 160°F (0° to 71°C)

Humidity:
- 10 - 95%RH, non-condensing

EMI:
- Mil-Std-461, Method CEO3
- Mil-Std-461, Method REO3

Cable Access:
- One inch (25 millimeters)
  knockouts in various positions

Cable Termination:
- Screw terminal blocks,
  30-12 AWG (0.2-2.5 mm)

Ordering Information:
- VPS-400US/48

Additional Datasheets:
- Technical Overview
- Scanner Detector
- Display Module
- VESDA System Management (VSM™)
- Programmer Module
- Detector

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